

SUNGUIDE® DISSEMINATOR

A Look at FDOT's Connected Vehicle Initiative

The Florida Department of Transportation (FDOT) is committed to the Connected Vehicle Program, an emerging wave of technology to further empower travelers. Currently, the trend is for travelers to use smart phones and personal navigation devices to receive traffic information. Connected vehicle is communication of data from vehicle-to-vehicle, vehicle-to-infrastructure, and infrastructure-to-vehicle. Each of these communication paths provide the ability to send and receive real-time traffic conditions to/from surrounding vehicles, transportation management centers (TMC), and other transportation agencies.

FDOT is currently preparing for the 2011 World Congress on Intelligent Transport Systems by supporting the Technology Showcase and demonstrations. There are several components involved in this preparation. FDOT is deploying 25 roadside equipment (RSE) units in the Orlando area, along with installing on-board equipment (OBE) in buses and other vehicles. The SunGuide® software, FDOT's statewide advanced traffic management system software, is being enhanced to integrate with this equipment and utilize this data. FDOT will demonstrate this working technology in the Mobility Village of the Technology Showcase as well as how it is integrated into live TMC operations.



Deploying RSEs requires an extensive amount of coordination. These devices are not standard intelligent transportation systems (ITS) equipment that FDOT previously installed. They are leading-edge and experimental; however, FDOT is working to ensure that they will perform as designed with the SunGuide software and with the mobile devices they communicate with during World Congress.

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The OBEs present another challenge—the hardware is not available off-the-shelf. Several companies are providing demonstration and prototype units, each with a slightly different set of functionality to accomplish a specific objective. Ensuring there are OBEs that exercise the functionality supported by the SunGuide software is critical to having a successful demonstration at World Congress.

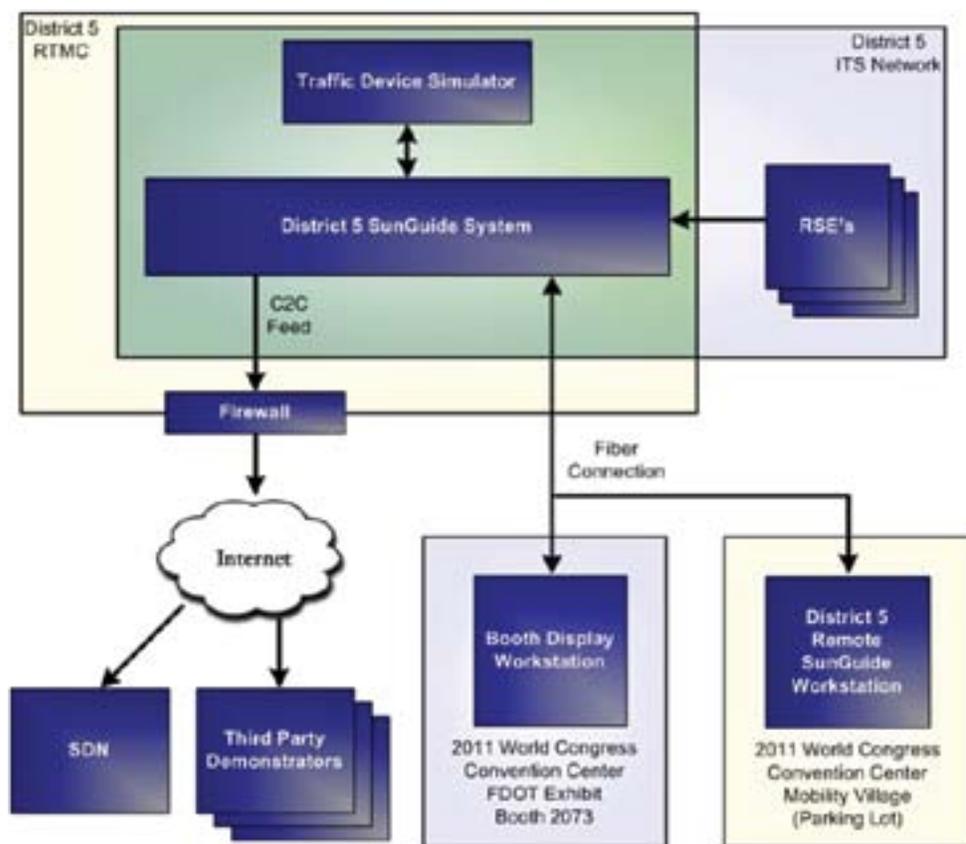


CAUTION!
Stalled Vehicle Ahead
On Left Shoulder
1/2 mile

A TMC operator will use the SunGuide software to generate a traveler advisory message (TAM) to broadcast to equipped vehicles in the vicinity-specific region. The OBE user interface displays this message to drivers.

Finally, SunGuide ties it all together—from the communications to the RSEs, the traffic management functionality and operator user interface, and the redistribution of data to the service delivery node.

The architecture drawing below shows how all of these systems are tied together and supported by the District Five ITS network.



This article was provided by Clay Packard and David Chang, FDOT Traffic Engineering and Operations Office. For information, please contact Mr. Packard at (850) 410-5623 or email to Clay.Packard@dot.state.fl.us.

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Word Challenge Answer

P R E F A B R I C A T E D

C O N S O L E - B A S E D

O R L A N D O

C O N N E C T E D V E H I C L E

P A R A D I S E I

World Congress — the ITS professionals

Moment of Humor!



Communication provides the platform for the connected vehicles program.

Cooperative Effort to Meet Communications Needs

In an effort to assist the Florida Department of Transportation's (FDOT) District Two land mobile radio communications needs, the Central Office Intelligent Transportation Systems (ITS) Telecommunications Program, administered by Randy Pierce, has taken the lead as project manager in designing a new communications site located at the Perry Maintenance Yard.

To meet their growing needs, a communications tower owned by the Division of Forestry in the Gainesville area was recently dismantled to allow for the placement of a larger radio tower. The removed tower was examined and it was determined that after refurbishment it could be reused. Correspondingly, there was an immediate need for a new communications tower and shelter to support FDOT's and public safety communications for multiple state agencies in the Perry, Taylor County area.

District Two personnel requested assistance from the ITS staff in developing the specifications for a prefabricated communications shelter to support this effort. The Central Office provided the District with the minimum specifications for the shelter to be included in the District's procurement documentation. A procurement contract was awarded in May 2011 and the ITS Telecommunications staff continue to support the District in this effort.

As a parallel support effort, the Central Office ITS Telecommunications Program is designing the remaining communications site facilities located at the Perry Maintenance Yard, and developing the technical specifications and necessary procurement documentation. This work includes modification and reconstruction of a 425 foot guyed tower and all associated foundations, grounding, lightning protection, communications utilities, and commercial power for the facilities.

As a result of this cooperative joint effort, the Perry communications facility will be completed at a fraction of the original estimated cost.

This article was provided by Randy Pierce, FDOT Traffic Engineering and Operations Office. For information, please contact Mr. Pierce at (850) 410-5608 or email to Randy.Pierce@dot.state.fl.us.

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Making the 2011 World Congress on ITS

The first World Congress in the United States took place in Orlando in 1996; now, 15 years later, the sixth Americas World Congress and 18th overall returns just in time to see how far Florida has come in the deployment of intelligent transportation systems (ITS) technologies, helping to make for safe, mobile, and sustainable communities. With the return to Florida, comes the opportunity to also highlight the World Congress theme: Keeping the Economy Moving. While the conversation will no doubt focus on how investment in ITS can drive the economy, attendees can expect a high level of exchange and discussion around some of the hottest topics in transportation: connected vehicles, performance measurement, financing and the high return on investment of ITS, and incident management, just to name a few.



Plenaries will explore public policies that can accelerate ITS deployment to promote economic growth and job creation, improve the condition and performance of our existing infrastructure, and make better use of private sector investment and innovation. What new technologies and business practices are on the horizon that will revolutionize transportation while spurring economic growth? What more can governments do to encourage private sector innovators to invest in the research, development, and deployment of ITS? With invited speakers, such as Secretary of Transportation Ray LaHood, and Alcatel-Lucent CEO Ben Verwayaan (confirmed), the plenaries will definitely prepare attendees for the important work of the World Congress by discussing the latest challenges and opportunities facing ITS.

The Preliminary Program is now available online at www.itsworldcongress.org. This interactive e-brochure is a one-stop resource for information on all the major activities planned for the week and includes details on registration, housing, exhibits, and sponsorship opportunities. Here are just a few highlights:

- Thomas Stephens, Vice Chairman, General Motors Global HQ and Bill Ford, Executive Chairman of Ford Motor Company will open and close the 18th World Congress, respectively, with exciting keynote addresses that will challenge current thinking and explore new opportunities.
- ITS America's member-driven technical committees invite you to join them to discuss an emerging topic in the field: performance measures. "Intelligent Transportation Systems and the Changing World of Performance Measures" is an in-depth look at how ITS play a critical role in measuring the performance of our transportation network.
- World class special events, like the first-ever World Congress Golf Tournament at Disney's Osprey Ridge golf course, ITS Florida's Welcome Dinner at Sea World's Discovery Cove, and the exclusive finale event at Disney's Hollywood Studios.
- Special targeted opportunities for incident management professionals, students and the first ever Investor Match Event, a program hosted by venture and strategic investors partnering with ITS America to match the developers of the latest transportation technology with potential investors.

The 18th World Congress, "Keeping the Economy Moving," promises to provide unique opportunities for attendees to see, hear, and learn more about how investment in ITS can create and sustain jobs and drive the global economy while helping agencies do more with less.

See you in Orlando!

This article was provided by Emily Fishkin, ITS America. For information, please contact Ms. Fishkin at (202) 721-4204 or email to EFishkin@itsa.org.

* * * *

Looking for Volunteers!

We need your help in finding volunteers to assist with various duties at the World Congress. For each half or full day, all volunteers will receive a complimentary one-day pass into the Orange County Convention Center Exhibit Hall and a free distinctive polo shirt, along with complimentary refreshments and lunch on the day(s) in which they volunteer, and will play an important role in making this event a huge success. They will also be invited to visit the Technology Showcases on that same day(s).

Volunteers are requested to contribute a minimum of a half (7:30 am – 1:00 pm or 12:30 pm – 6:00 pm) or full day of service. Some volunteers will be asked to attend a half day training session Friday, October 14th.

Don't pass up this terrific opportunity for you and your employees or students to participate in this extraordinary event! We do appreciate your support; please feel free to contact Sandra Collier at scollier@itsa.org with any questions or concerns.

* * * *

Visit FDOT at the 2011 World Congress on ITS

The Florida Department of Transportation (FDOT) Central Office Intelligent Transportation Systems (ITS) Program is working on plans for its exhibit at the 18th World Congress on Intelligent Transport Systems, which will also feature ITS America's Annual Meeting and Exposition, on October 16 – 20, 2011, in Orlando, Florida. This year's World Congress is appropriately titled, "Keeping the Economy Moving."

FDOT will be well-represented at the World Congress, with a 10 by 20 foot exhibit in the exposition hall and a prominent space within the Mobility Village of the technology showcase.

Exposition Hall

FDOT is planning to demonstrate their ITS Program, including coordinated traffic operations, at Booth 2073 in the exposition hall. To this purpose, FDOT's ITS Program exhibit features an active transportation management center (TMC)/SunGuide® software demonstration area, staffed by an operator from District Five; a statewide information kiosk featuring project videos and presentations throughout the state; and a Florida 511 (FL-511) demonstration area, including instructions on personalizing FL-511 routes to

suit a user's needs. FDOT will also provide literature highlighting various aspects of the ITS Program.

Mobility Village

The Mobility Village will showcase technology solutions used to reduce congestion and keep people and goods moving. FDOT will demonstrate the features and operational benefits of the SunGuide software connected vehicle-related enhancements at the Mobility Village.

Together with FDOT, other agencies represented in the Mobility Village include:

- Sensys Networks
- GEWI/BMW
- Iteris/Savari
- Alcatel-Lucent
- LYNX

FDOT's Mobility Village exhibit will have a display of "Here I Am" on-board equipment (OBE), roadside equipment (RSE) device, and a SunGuide operator workstation showing the central software integration of these devices in the Orlando area. Several vehicles equipped with OBE will be driving around key corridors the Orlando area installed with RSE devices. These RSEs will interface with the OBEs and connect to the FDOT District Five SunGuide® advanced transportation management system production software through the District's fiber optic network.

We look forward to seeing you at the World Congress and hope you will enjoy our demonstrations!

This article was provided by Clay Packard and Karen England, FDOT Traffic Engineering and Operations Office. For information, please contact Mr. Packard at (850) 410-5623 or email to Clay.Packard@dot.state.fl.us.

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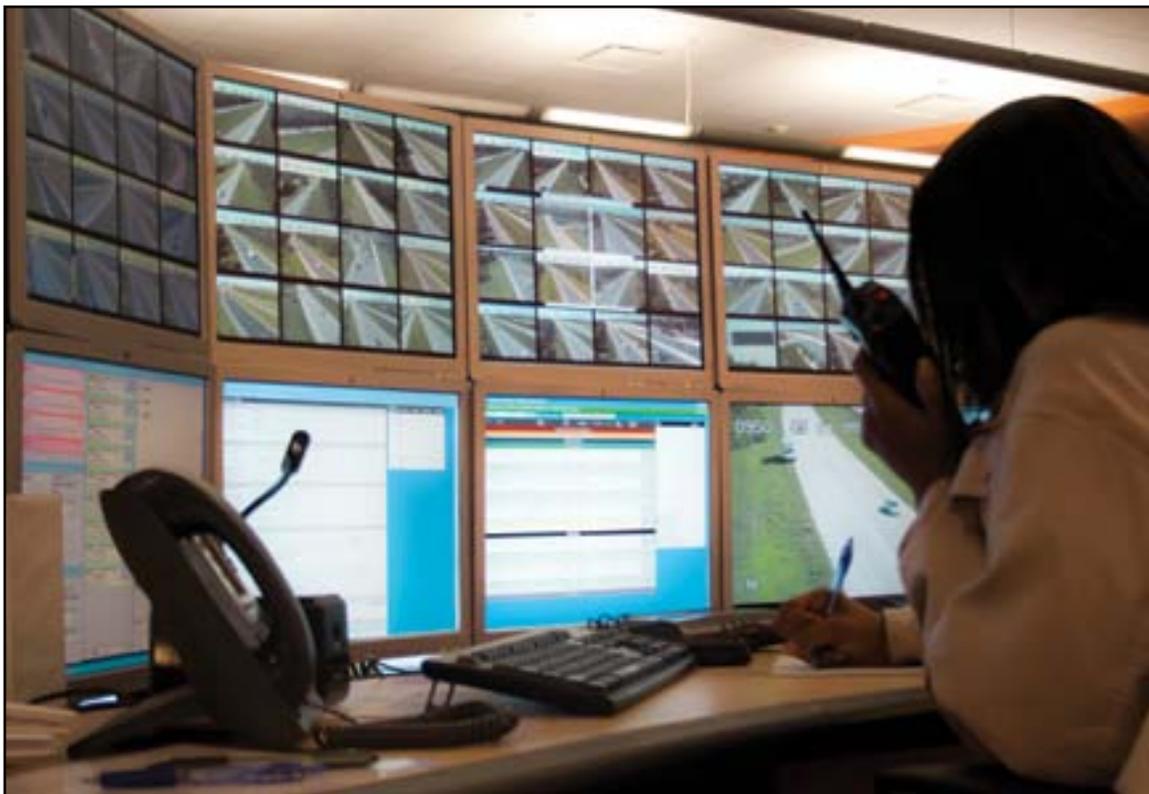
District Four Upgrades Operator Consoles for Maximum Video Capability

The Florida Department of Transportation (FDOT) District Four Intelligent Transportation Systems (ITS) Program expanded the capacity for viewing streaming closed-circuit television (CCTV) cameras in the Broward Transportation Management Center (TMC) control room. The capacity upgrade was completed by modifying operators' consoles rather than the video wall. The cost was substantially less than trying to expand the video wall and did not require any changes to the control room size or layout. The result of the upgrade gives operators the ability to have 64 streaming CCTV images at each console at all times and to spot disruptions to traffic faster than viewing only one camera at a time.

In the last year, the Broward TMC operations staff became responsible for managing an additional 116 new CCTV cameras. This change comes from the completed ITS deployment on the Treasure Coast and taking over Palm Beach operations on nights and weekends.

Since the Broward TMC opened, operators have been working at consoles with five monitors. CCTV cameras were accessible at each desk and each operator was responsible for reviewing them one-by-one. The cameras for the most active areas were posted on the video wall at the front of the room in order to easily identify traffic incidents. This method worked while the TMC was only managing 100 cameras, which is the capacity of the portion of the video wall assigned to FDOT (the wall is shared between FDOT and Broward County Traffic Engineering). As soon as the Treasure Coast and Palm Beach cameras were ready for use, the operations staff needed to develop a new method to manage all of the additional images. Knowing that in the coming year, FDOT is adding more cameras in Palm Beach made it important to come up with a scalable solution.

Between the operations, management, and information technology staff, a video processing unit was developed. The technical specifications of the unit make it capable of handling 32 live streams of video. In order to accomplish this, each console has two video processing units to run the video streams, a central processing unit for the SunGuide® software, and a central processing unit for regular computing. The consoles are now in use, having been modified with four new monitors for each operator to view a total of 64 cameras simultaneously, plus an additional monitor for the operators to customize based on the incident or zone they are managing. In total, each console consists of four processing units and ten monitors.



The biggest benefit of this change is directly to TMC operators. At a glance, they are able to spot changes in traffic flow, possibly saving minutes before having reached that particular camera during a normal check. The long-term benefit of implementing console-based mini-video walls is that the main video wall is now available for other operational uses, such as displaying speed data and device status profiles.

This article was provided by Daniel Smith, FDOT District Four. For information, please contact Mr. Smith at (954) 847-2785 or email to Daniel.Smith@dot.state.fl.us.

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Rapid Incident Scene Clearance Annual Report

Annual reports are an important tool for any program. These reports utilize data gathered over a specific time period and can provide a snapshot of a program's performance. In addition to providing a summary of the previous year's activities and performance, the annual report permits analysis and the capability to view trends in the program over time. The Rapid Incident Scene Clearance (RISC) report is one example of this valuable tool.

The RISC program, a highly innovative heavy-duty towing and recovery program, supports Florida's *Open Roads Policy*, which establishes a 90-minute goal for clearance of a motor vehicle crash or incident on Florida's roadways. The purpose of the RISC program is to safely and quickly restore highway facilities for safe public use. The RISC program differs from standard towing practices currently in place across the state. RISC contractors are required to have multiple tow vehicles capable of lifting larger loads; they must also have additional agreements in place to quickly obtain front end loaders, roll off dumpsters, and other specialized recovery equipment to safely and quickly clear an incident. This program ensures that the proper equipment and personnel are expeditiously brought to the incident scene when needed.

For each RISC event, the FDOT District provides key data points to the Central Office. The data provided is used at the District level to determine whether the RISC vendor has met the times required to qualify for any level (amount) of RISC incentive; however, at the Central Office level, the data is utilized to monitor the RISC program's performance on a broader level. A spreadsheet was developed for all of the needed key data points. Over time, as each incident is documented, measurements of average arrival times and incident duration times become more evident as does the number of incidents occurring in certain areas. This spreadsheet is updated as the Districts report each event. While it might seem tedious to collect data for each event and maintain an up-to-date database, this simple process helps in creating the annual report, making it much less time consuming since the data is already in the required format.

Preparing annual reports can be a daunting task, especially considering the amount of specific data and analysis that are required. However, good document preparation and diligence in data collection ensures that preparing an annual report is a smooth, planned process.

This article was provided by Patrick Odom, FDOT Traffic Engineering and Operations Office. For information, please contact Mr. Odom at (850) 410-5631 or email to Patrick.Odom@dot.state.fl.us.



District Six Launches Mobile Version of SunGuide.org!

The Florida Department of Transportation District Six recently unveiled a mobile version of its Intelligent Transportation Systems (ITS) Program web site—SunGuide.org.

District Six launched the mobile site this summer in an effort to enhance the site's accessibility to the public and improve user's mobile browsing experience while on the go. With the site offering such valuable features as streaming traffic camera feeds from all District Six highways as well as monthly operational service reports, the site has become a trusted source of ITS program-related information for members of the public, agency stakeholders, and industry professionals alike.

Pew Research Center's Project for Excellence in Journalism, *The State of the News Media 2011, An Annual Report on American Journalism*, Key Findings, indicates that more than 84 percent of Americans own a mobile phone (an additional 7 percent own a tablet) and 47 percent of these receive their news information from a mobile device. This indicates an evident need to enhance public web sites to meet this growing trend.

With this information and in line with the District's on-going commitment to advance the ITS Program mission and inform the public about our services, operations staff developed a streamlined version of the site for easier navigation and more efficient load times. The mobile version offers the site's most popular features on an easy-to-use menu that allows users to select and browse through the site's news flash section, streaming traffic camera feeds, and operational reports.

A notable improvement in the mobile version of the site is the newly designed traffic camera page. With more than 200 District cameras displayed on a Google® map platform on the site's full version; selecting a specific camera on a mobile device was very cumbersome. However, in the mobile version, the traffic cameras were organized by roadway according to their location from the Broward/Miami-Dade County line south to the Lower Keys, thus making camera selection and browsing much easier than before. This enhancement is especially useful for on-the-go user's need to preview traffic conditions on a specific section of the highway before embarking on their route. Another improvement was in the news flash and operational reports sections. Site users can now stay up to date with the latest news and information regarding the SunGuide® Transportation Management Center.



Mobile site allows easier navigation and browsing.



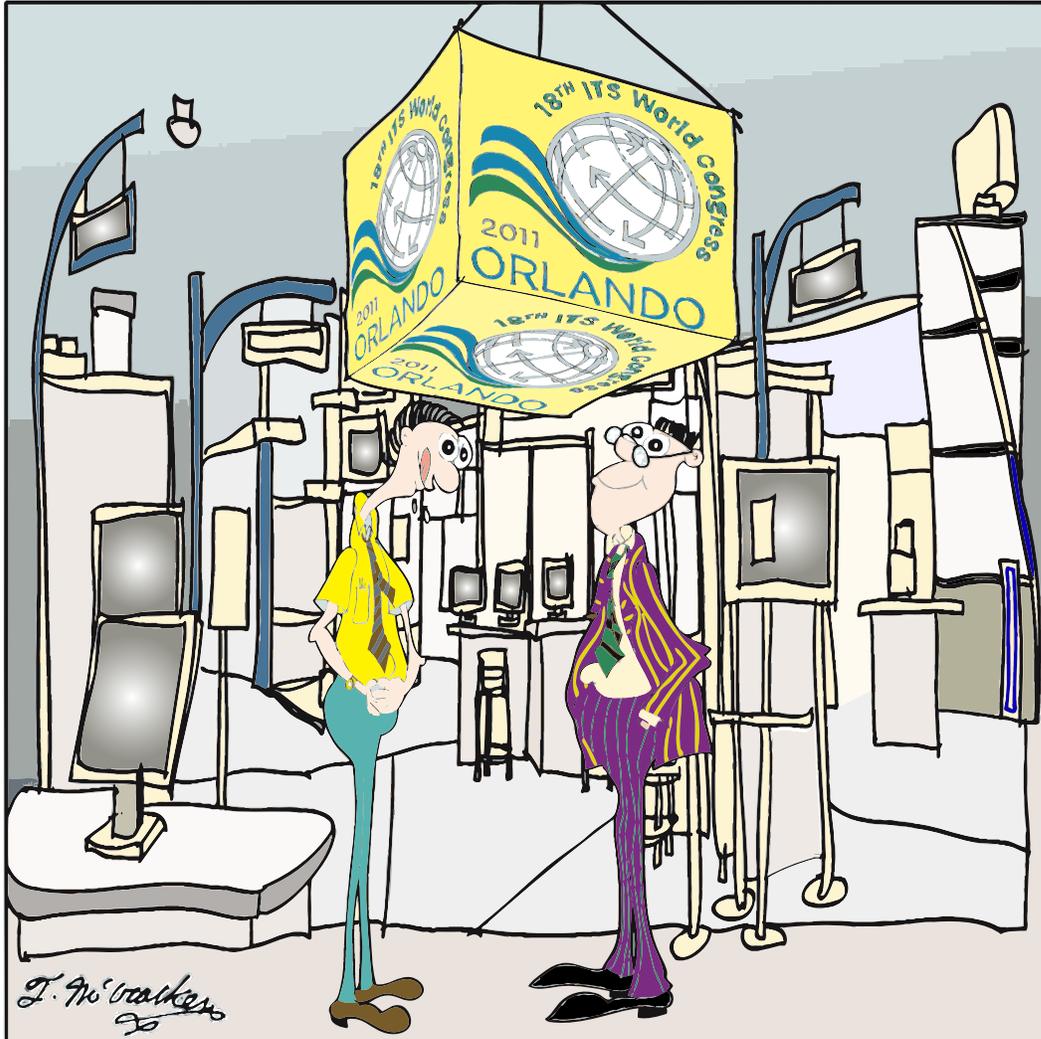
The SunGuide.org website features program information and useful traveler information tools.

These web site enhancements are part of the District's overall effort to maintain open lines of communication with the public and raise program awareness. By providing the community with the tools needed to remain engaged with the program on multiple platforms, the District is helping promote the public's overall acceptance of ITS beyond just southeast Florida.

This article was provided by Javier Rodriguez, FDOT District Six. For information, please contact Mr. Rodriguez at (305) 470-5341 or email to Javier.Rodriguez2@dot.state.fl.us.

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SunGuide® Disseminator Word Challenge



We invite you to have some fun and complete the SunGuide Disseminator Word Challenge!

Unscramble the letters to complete the word for the clue found under the boxes.
Use the letters in the red circles to complete the final puzzle.
The answers can be found on the page 2.

Enjoy
and
Good Luck!

World Congress — the ITS professional's

□□□□□□□□!

D E C T N O N E C

□□□□○□□□○□

L E V E C H I

□□□○□□□□

An emerging wave of technology empowering travelers.

D O A L O R N

□○□□○□□□

First US city to host the World Congress.

L O S O N C E - S A D E B

□□□○□□□□-□○□□□□

This type of mini-video wall was recently implemented at a District 4 TMC.

D E P R E C A I R T B A F

○□□□□□□□□□□□□

Type of shelter used to support a land mobile radio communications effort.

ITS Florida: Hosting a Welcome Reception at the 18th World Congress

18th World Congress on ITS Welcome Reception and Dinner at SeaWorld's Discovery Cove®

ITS Florida is excited to announce a tropical night of dinner and dancing which awaits guests at SeaWorld's Discovery Cove in Orlando, Florida. As part of the 18th World Congress on Intelligent Transport Systems, this event will treat 450 attendees to a kick-off dinner and reception in anticipation of the week-long sessions. This event will provide wonderful networking opportunities for attendees as they enjoy a Caribbean themed luau buffet with live entertainment amid an exotic backdrop of lush gardens. Come join us for this exciting evening of fun and friendship. Tickets are required and transportation will be provided.

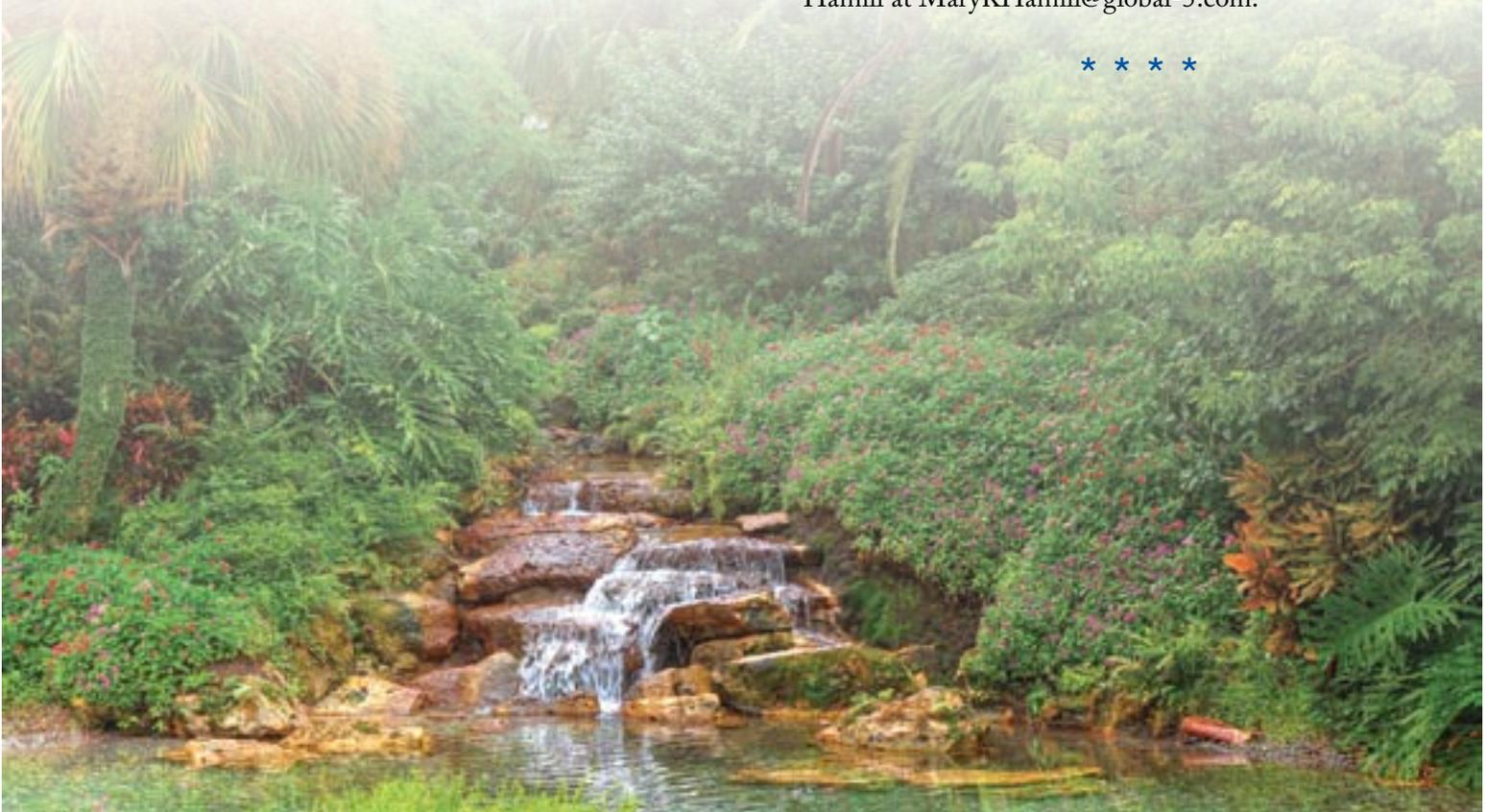
Please register today through the World Congress web site at: www.itsworldcongress.org.

You can read about this special event in the virtual program at: www.itsworldcongress.org/track.html.

We look forward to seeing you there!

For more information on ITS Florida, please check the ITS Florida Web site at www.itsflorida.org or contact Sandy Beck, Chapter Administrator, at itsflorida@itsflorida.org. If you wish to contribute an article to the SunGuide Disseminator on behalf of ITS Florida, please email Mary Hamill at MaryKHamill@global-5.com.

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Editorial Corner:

KEEPING THE ECONOMY MOVING



In only a few months from now, over 10,000 transportation experts from over 70 countries will ascend upon Orlando, Florida, for what is clearly the greatest transportation technology show in 2011. The 18th World Congress on Intelligent Transport Systems conference will take place on October 16-20, and has taken almost 3 years to develop. From the original concept to the final product, every detail has been designed to give people the maximum amount of education, networking, and the ability to see current and future technology through hands-on demonstrations. Yet one of the most striking aspects of the conference is the interest from the public and private sector, drawing some of the highest level government officials and corporate executive. In the past, we have seen a growing interest in the industry, but this level of policy makers from across the globe is unprecedented.

The theme for the conference is *Keeping the Economy Moving through ITS* and the entire program is structured around this important message. As the world emerges from the economic crisis, trade and the movement of goods and people will significantly increase, yet the infrastructure has not kept pace. Attempting to build for this increased demand is not feasible due to the time and cost, further impacting the economy. It is clear that transportation technology can achieve the required capacity, improve safety, and create a more ecological solution. Leaders from all over the world are proving that technology is the correct path forward to provide an efficient transportation network for single passenger vehicles, transit, and freight.

From the minute attendees arrive in Orlando, they will experience some of the latest technologies and will be overwhelmed with the advances in vehicle-to-vehicle and vehicle-to-infrastructure technology. With over 26 hands-on or in-vehicle demonstrations, people will understand the benefits and technology. The 350,000 square foot exhibit hall furthers the experience and allows participants to discuss current and future solutions representing almost the entire industry from across the globe. From a policy and technical need, a detail program session from plenary to executive to technical sessions, participants have over 200 sessions to experience, including 37 specific ITS America annual meeting discussions.

Finally, we believe in working hard, but we also have fun networking with our peers from agencies and companies from the many countries. The networking begins with the golf tournament and ends with an amazing evening at Disney, where we take over the park. Every hour of this amazing conference is filled with educational and networking events.

Today, there is no greater professional mission than improving the economy by reducing congestion, and improving safety while reducing transportation's impact on our environment. On behalf of the ITS World Congress Board and ITS America, we welcome everyone to attend and learn the path forward as we create the transportation for ourselves and future generations. We can't wait to see you in Orlando, where transportation experts from all over the world will make a difference in the world.

This editorial was provided by Patrick McGowan. For information, please email Mr. McGowan at Patrick.McGowan@telvent.com.

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Announcements

Make Plans to Attend the 18th World Congress!

Now is the time to make preparations to participate in this exciting conference. Registration is open for the 18th World Congress on Intelligent Transportation Systems in Orlando and ITS America's Annual Meeting & Exposition.

Top reasons to attend?

- Valuable networking events
- Exciting technical tours
- Interactive technology showcases
- Internationally acclaimed awards
- More than 250 sessions

To learn more please visit www.itsworldcongress.org.

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Kick Off the World Congress at the Golf Tournament

The tropical wilderness of Disney's Osprey Ridge Golf Course provides scenic surroundings, while challenging all comers with its rolling fairways and large, undulating greens. In the pristine majesty of this Florida nature preserve, world-renowned designer Tom Fazio masterfully created a truly spectacular golf experience. The tournament is on October 15, 2011, at 8a.m. at a cost of \$125 per golfer, first come first served. Golfers will be able to register when they register for the conference. Payment must be received at time of reservation to confirm slot.

More details are available on the World Congress web site at www.itsworldcongress.org.

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FDOT Traffic Engineering and Operations Mission and Vision Statements



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